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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/511,353	10/12/2004	Katsura Hirai	KON-1944	6500
20311 75	90 09/08/2005		EXAMINER	
LUCAS & MI	ERCANTI, LLP		MONDT, JO	HANNES P
475 PARK AVI 15TH FLOOR	ENUE SOUTH		ART UNIT	PAPER NUMBER
NEW YORK, NY 10016			2826	

DATE MAILED: 09/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			\mathcal{U}		
		Application No.	Applicant(s)		
		10/511,353	HIRAI ET AL.		
	Office Action Summary	Examiner	Art Unit		
		Johannes P. Mondt	2826		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address		
WHIC - Exter after - if NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES and the may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim iill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status					
2a)□	Responsive to communication(s) filed on 12 Oct. This action is FINAL . 2b) This Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Dispositi	on of Claims				
5)□ 6)□ 7)□ 8)⊠	Claim(s) 1-31 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) 1-31 are subject to restriction and/or expressions.	vn from consideration.			
Applicati	on Papers				
10)	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Example 1.	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority u	ınder 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:			

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DETAILED ACTION

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claims 1-2, and 5-14, drawn to an organic semiconductor composition comprising metal particles and a specific p-conjugated polymer or oligomer, considering that an organic semiconductor composition comprising metal and a p-conjugated polymer or oligomer is well known in the prior art (see for instance Smith et al (6,238,790 B1).

Group II, claims 1, 3, 4, and 29-31, drawn to an organic semiconductor compound combining with particles through a sulfide group and a method of manufacturing of the same.

Group III, claims 15-28, drawn to a photosensor comprising an organic semiconductor layer comprising particles and an organic semiconductor compound combining with the particles.

2. The inventions listed as Groups I, II and III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group I invention does not require the photosensor nor the sulfide; the Group II invention does

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not require the specific p-conjugated polymer or oligomer of the Group I invention nor the photosensor of the Group III invention; while the Group III invention does not require the sulfide nor the specific olimger or p-conjugated polymer of the Group I invention.

3. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

Species one of the Group I invention: regionegular poly(3-alkyl)thiophene;

Species two of the Group I invention: polyporhyrin derivative.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

4. The claims are deemed to correspond to the species listed above in the following manner:

Species one: claims 1, 2 and 5-12;

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Species two: claims 1, 2 and 13-14

The following claims are generic among said Species: claims 1 and 2.

5. The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: said p-conjugated polymer or oligomer is either a porphyrin derivative or a poly-thiophene derivative both not both.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Johannes P. Mondt whose telephone number is 571-272-1919. The examiner can normally be reached on 8:00 - 18:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan J. Flynn can be reached on 571-272-1915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JPM September 6, 2005

Patent Examiner:

Johannes Mondt (Art Unit: 2826).